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March 20, 1993

Donna R. Searcy
Secretary
Federal Communications Commission
1919 M Street, N.W.
Washington, D.C. 20554

Re: *Ex parte Presentation*,
ET Docket 92-9; also, PP-28
LOF 20001.0/4.00

Dear Ms. Searcy:

This is to report that David Otten and Victor Toth, representing CELSAT, Inc., meet on March 19, 1993 with Dr. Thomas Stanley, Chief, Office of Engineering and Technology, and members of his staff to describe CELSAT's interest in the 1970-1990 MHz and 2160-2180 MHz bands for operation as a a hybrid space based

1970 -1990MHz And 2160-2180Mhz Bands

1996 Space and Ground Mobile co-primary
- **Region 2 only until 2005**
- **Substantial U.S. advantage**

AMSC, Comsat, and Motorola have requested allocating these bands for Satellite use

Celsat has requested allocating these bands for hybrid Satellite and Ground use

A Unique Portion Of The Emerging Technologies Bands

Celsat /Current Fixed Microwave Users

117 separate satellite beams over the U.S.
-Gradual clearance possible

Celsat Pioneer's Preference Summary

Celsat will cut cellular prices substantially.
Celsat's Hybrid Satellite and Ground Based system has major cost advantages which permit service rates of less then 25 cents per minute:

a)One thirtieth (1/30) of the cost per phone circuit of the proposed Motorola "Iridium" satellite based system.

b)Nationwide coverage is provided with the launch of a single satellite. This permits building it's ground network for capacity only , and not for coverage. This permits the lowest cost ground digital network.

Celsat has an order of magnitude more circuit capacity.
The space portion of Celsat's system provides 60,000 voice circuits as opposed to a maximum of less then 8,000 voice circuits for any other satellite system. In addition, ***and in the same bandwidth*** , Celsat will provide in excess of 1,000,000 ground circuits.

Celsat is safer then all other systems.
Celsat's mobile phone has the lowest radiated power, from one fifth (1/5) the power required to a satellite to one thirtieth (1/30) of the power required to a ground tower. This means greater safety as well as a smaller battery.

Celsat provides important new features.
New features include: compressed video (Picture Phone), paging, high speed fax, high speed data, position determination, and improved quality voice-***all using the same basic transceiver***. Celsat will offer circuits up to 144 kbits/sec which is more then ten times the emerging cellular standard.

Celsat will serve all US citizens.
Calls can be placed or received anywhere in the US with one telephone and a single number. All areas (including the most rural) will have cellular service.

The system uses new patented digital cellular telephone technology.
Celsat's founders are enterprising pioneers who have developed an "All American" breakthrough in cellular telephones which will guarantee US dominance in this important and growing field. The system uses US unique aerospace ("swords to plowshares") and digital technology.

Celsat's System Is A Breakthrough In Wireless Technology